WATER POLLUTION AND EROSION CONTROL NOTE
 A. GENERAL: 1. The Contractor is reminded of the requirements of Section 209 - Pollution, Dust, and Erosion Control, in the Special Provisions. Section is not limited to: submittal requirements; scheduling of a way erosion control conference with the Engineer; construction requirements; method of measurement; and basis of payment.
2. The Contractor shall follow the guidelines in the "Best Manageme Manual for Construction Sites in Honolulu", dated May 1999 in de installing and maintaining the Best Management Practices (BMP)

- 3. The Contractor shall follow the guidelines in the Honolulu's City & County "Rules Relating to Soil Erosion Standards and Guidelines" along with applicable Soil Erosion Guidelines for projects on Maui, Molokai, Kauai, and Hawaii.
- 4. The Engineer may assess liquidated damages of up to \$27,500 for non-compliance of each BMP requirement and each requirement stated in Section 209, for every day of non-compliance. There is no maximum limit on the amount assessed per day.
- 5. The Engineer will deduct the cost from the progress payment for all citations received by the Department for non-compliance, or the Contractor shall reimburse the State for the full amount of the outstanding cost incurred by the State.
- 6. For projects that require an NPDES Permit from the Department of Health, install a rain gage prior to any field work including the installation of any site-specific best management practices. The rain gage shall have a tolerance of at least 0.05 inches of rainfall, and have an opening of at least one-inch in diameter. Install the rain gage on the project site in an area that will not deter rainfall from entering the gage opening. The rain gage installation shall be stable and plumbed. Do not begin field work until the rain gage is installed and site-specific best management practices are in-place.

B. WASTE DISPOSAL:

Waste Materials

All waste materials shall be collected and stored in a securely lidded metal dumpster. The dumpster shall meet all local and State solid waste management regulations. All trash and construction debris from the site shall be deposited in the dumpster. The dumpster shall be emptied a minimum of twice per week or as often as is deemed necessary. No construction waste materials shall be buried onsite. The Contractor's supervisory personnel shall be instructed regarding the correct procedure for waste disposal. Notices stating these practices shall be posted in the office trailer and the Contractor shall be responsible for seeing that these procedures are followed.

2. Hazardous Waste

All hazardous waste materials shall be disposed of in the manner specified by local or State regulations or by the manufacturer. The Contractor's site personnel shall be instructed in these practices and shall be responsible for seeing that these practices are followed.

3. Sanitary Waste

All sanitary waste shall be collected from the portable units a minimum of once per week, or as required.

C. EROSION AND SEDIMENT CONTROL INSPECTION AND MAINTENANCE PRACTICES:

- 1. All control measures shall be inspected at least once each week and within 24 hours of any rainfall event of 0.5 inches or greater within a 24 hour period.
- 2. All measures shall be maintained in good working order. If repair is necessary, it shall be initiated within 24 hours after the inspection.
- 3. Built-up sediment shall be removed from silt fence when it has reached one-third the height of the fence.
- 4. Silt screen or fence shall be inspected for depth of sediment, tears, to verify that the fabric is securely attached to the fence posts or concrete slab and to verify that the fence posts are firmly in the ground. The bottom of the silt screen shall be inspected and verified that it is buried a minimum of 6 inches below the existing ground.

ORIGINAL SURVEY PLOTTED BY PLAN DRAWN BY LRC PLAN DRAWN BY LRC NOTE BOOK DESIGNED BY dh3.toda.3thl DUANTITIES BY M3.thhpc0i.dg CHECKED BY	DATE 10/4/2005	
	SURVEY PLOTTED BY DRAWN BY $\angle RC$	DESIGNED BT <u>K.K.</u> DESIGNED BT <u>K.K.</u> QUANTITIES BTCHECKED BY

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- Temporary Water ection 209 describes ater pollution and rements;

ent Practices eveloping, for the project.

- 5. Temporary and permanent seeding and planting shall be inspec spots, washouts and healthy growth.
- 6. A maintenance inspection report shall be made promptly after by the Contractor and a copy shall be submitted to the Engine week from the date of the inspection.
- 7. Provide a stabilized construction entrance to reduce vehicle 1 sediments. Include stabilized construction entrance in the Wa Dust, and Erosion Control submittals. Minimum length should width should be 30 feet. Minimum depth should be 6 inches a geo-textile fabric. The paved street adjacent to the site entry cleaned daily or as required to remove any excess mud, cold or rock tracked from the site. Dump trucks hauling material site shall be covered with a tarpaulin. The Contractor shall in any material dropped or tracked onto the roadway.
- 8. Include designated Concrete Washout Area(s) in the Water Pol Erosion Control submittals.
- 9. The Contractor shall submit the name of a specific individual responsible for inspections, maintenance and repair activities inspection and maintenance report.
- 10. Personnel selected for the inspection and maintenance respons receive training from the Contractor. They shall be trained in and maintenance practices necessary for keeping the erosion a controls used onsite in good working order.
- 11. The Contractor shall contain, remove, and dispose slurry gener cutting of pavement in accordance with approved BMP practice confinement, removal, and disposal of slurry shall be considered various contract items.
- D. GOOD HOUSEKEEPING BEST MANAGEMENT PRACTICES:
- 1. Materials Pollution Prevention Plan

a. Applicable materials or substances listed below are expected onsite during construction. Other materials and substances not added to the inventory.

Concrete Detergents Paints (enamel and latex) Metal Studs Tar

Fertilizers Petroleum Based Product Cleaning Solvents Wood Masonry Block

b. Material Management Practices shall be used to reduce the accidental exposure of materials and substances to storm wat shall be made to store only enough product as is required to

c. All materials stored onsite shall be stored in a neat, order appropriate containers and if possible under a roof or other

d. Products shall be kept in their original containers with the manufacturer's label.

e. Substances shall not be mixed with one another unless red manufacturer.

f. Whenever possible, a product shall be used up completely be container.

g. Manufacturer's recommendations for proper use and dispo h. The Contractor shall conduct a daily inspection to ensure disposal of materials onsite.

- 2. Hazardous Material Pollution Prevention Plan
 - a. Products shall be kept in original containers unless they a
 - b. Original labels and material safety data sheets (MSDS) sha
 - c. Surplus products shall be disposed of according to manuf
 - or local and State recommended methods.

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	FED. ROAD DIST. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
	HAWAII	HAW.	IM-H1-1(254)	2006	NO. 4	31
ed for bare		1	·	L	<u>.</u>	1
ch inspection no later than one						
cking of Pollution, 50 feet. Minimum I underlain with ce shall be ned materials, dirt om the construction nediately pick up						
tion, Dust, and						
esignated d filling out the						
ilities shall the inspection sediment						
ed from saw Payment for incidental to the					• •	
to be present isted below shall be						
sk of spills or other runoff. An effort the job.						
manner in their closure.						
original						
nmended by the						
ore disposing of the						
shall be followed. Oper use and	WATE		state of ha RTMENT OF TRA HIGHWAYS DIV	NSPORT /ISION		IOTES
not resealable. be retained. turers' instructions		RSTAT	<u>E ROUTE H</u> <u>Airport Via</u> ject No. IM-	<u>I-1_DE(</u> <u>duct</u> H1-1(25	CK RE	PAIR

WATER POLLUTIC	ON AND EROSION CONTROL NOTE
	ING BEST MANAGEMENT PRACTICES: -Cont
3. Onsite and Offsite F	
a. Petroleum B	ict specific practices shall be followed onsite ased Products.
All onsite ver preventive ma stored in tig	hicles and equipment shall be monitored for aintenance to reduce the chance of leakage. htly sealed containers which are clearly labe shall be applied according to the manufactur
manufacturer exposure to	sed shall be applied only in the minimum am . Once applied, fertilizer shall be worked in storm water. Storage shall be in a covered s d bags of fertilizer shall be transferred to
paint shall n	s shall be tightly sealed and stored when no ot be discharged to the highway drainage sy according to manufacturers' instructions or
a designated waters of th Department o The Contract capture, and	icks: cks shall be allowed to wash out or dischard site. Water shall not be discharged in the T e United States. The Contractor shall contac of Health at 586-4258 to receive permission is for shall use a portable self-contained and w contain concrete washout material. The bin non-working hours.
e. Other Practic The Contract	ces: or shall contain all materials in the work ar
4. Spill Control Plan a. A spill prevention up each spill.	on plan shall be posted to include measures
<i>Contractor shall de prevention and clea for a particular ph</i>	shall be the spill prevention and cleanup cod signate at least three site personnel who sh nup training. These individuals shall each be hase of prevention and cleanup. The names of posted in the material storage area and in t
	recommended methods for spill cleanup shall ' be made aware of the procedures and the anup supplies.
d. Materials and e storage area onsite	quipment necessary for spill cleanup shall be
e. All spills shall	be cleaned up immediately after discovery.
	hall be kept well ventilated and personnel sh to prevent injury from contact with a hazard
	nazardous material shall be reported to the a ency, regardless of the size.

DATE 10/4/2005	
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ORIGINAL PLAN	NOTE BOOK dh3.toda.3rhl \$3rhlhpc02.dg

Ivdraulics Design Section

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r leaks and receive regular . Petroleum products shall be beled. Any asphalt substances urer's recommendation.

mounts recommended by the nto the soil to limit shed. The contents of any a sealable plastic bin to

not required for use. Excess system but shall be properly State and local regulations.

arge drum wash water only at highway drainage system or act Drinking Water Branch, to designate a disposal site. watertight bin to control, n shall not be left in the work

rea.

to prevent and clean

ordinator. The hall receive spill become responsible of responsible spill the office trailer

II be clearly posted and location of the

be kept in the material

hall wear appropriate dous substance. appropriate State or

E. PERMIT REQUIREMENTS:

1. If a National Pollutant Discharge Elimination System (NPDES) Permit is required for Construction Activities of one acre or more, the Contractor shall submit to the Engineer four sets of the Water Pollution and Erosion Control Submittals as detailed in Subsection 209.03 of the specifications.

2. If an NPDES Permit for Construction Dewatering is required, the Contractor shall be responsible to obtain the Permit from the Department of Health, Clean Water Branch.

3. The Contractor shall comply with all applicable State and Federal Permit conditions.

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STATE OF HAWAII DEPARTMENT OF TRANSPORTATION HIGHWAYS DIVISION								
WATER POLLUTION & EROSION CONTROL NOTES								
INTERSTATE ROUTE H-1 DECK REPAIR								
Airport Viaduct								
Project No. IM-H1-1(254)								
			Date:	March, 2	2006			
SHEET No.	2	OF	2	SHEETS	S			

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